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PATENT ABSTRACTS OF JAPAN

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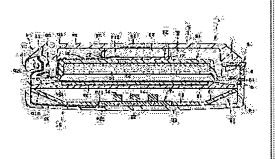
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(54) STORAGE CASE

(57)Abstract:

ights from a light source, provided with a beautiful or a PROBLEM TO BE SOLVED: To provide a storage case for obtaining a variety of performance effects owing to novel and unique decoration, capable of creating a characteristic and peculiar atmosphere

source device 18, the light source device 18 has an RGB hinge 4. A button type battery 23 to supply power to the SOLUTION: In a storage case 1 of which the lid to open and a contact 30 which can be contacted and separated source device 18 according to a rotating quantity of the color of the RGB light source 21 mounted thereon. The ight source device 18 is provided with the main body 3, id 6 is rotatably joined with the main body 3 through a ight source 21 and an electronic base plate 22 with a controller to control the emitted light quantity of each and close a case main body 3 is provided with a light to conduct the button type battery 23 with the light id 6 is provided with the hinge 4.



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CLAIMS

[Claim(s)]

Claim 1]

The receipt case characterized by having the controller by which the above-mentioned light equipment controls the amount of luminescence of each color of the RGB light source and this RGB light source in the receipt case which formed light equipment in the lid which opens and closes a case body.

Claim 2]

The receipt case according to claim 1 characterized by establishing the contact which said lid is connected with said case body free [rotation] through a hinge, and makes it flow through the above—mentioned dc-battery and the above—mentioned light equipment in the above—mentioned hinge according to the amount of rotation of the above—mentioned lid while the dc-battery which supplies power to said light equipment is formed in the above—mentioned case body, and which can be attached and detached.

Claim 3]

The receipt case according to claim 1 or 2 where said lid is characterized by the transparence which makes light penetrate, or being formed translucent.

[Claim 4]

claims 1–3 characterized by preparing the reflective member in which said lid is made to reflect the light of said RGB light source — a receipt case given in one of terms.

Une light of [Claim 5]

claims 1–4 characterized by covering said light equipment in said lid, and preparing the transparence or translucent covering which makes light penetrate in it — a receipt case given in one of terms.

[Claim 6]

The receipt case according to claim 5 characterized by preparing the cover member which conceals said light equipment in said covering.

[Translation done.]

JP,2004-327094,A [DETAILED DESCRIPTION]

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DETAILED DESCRIPTION

Detailed Description of the Invention

Field of the Invention

characteristic and relates to the receipt case which enabled it to give the ornament esthetic or As the various stage effects by the light from the light source are acquired, this invention is new, and novel which makes the ambient atmosphere of a proper brew.

[Description of the Prior Art]

sheet metal formed behind this light source. By incorporating the light source unit which consists container which has the light source which can see the face at the time of the makeup reflected and making the light source turn on As the interior of the body of a container can be illuminated, makeup reflected to a mirror even in the place where an illuminance is low. Moreover, he makes Conventionally, what was indicated by the patent reference 1 is known as a container equipped the outdoors of night, and the seat of a meeting and the vehicle of Nighttime using OHP It aims of the circuit board for making the light source turn on, a power source, and a switching means, or the face of a person with the body of a container is irradiated and a dark location or a mirror with the light source. This container also in the place where an illuminance is low, for example, to a mirror. To the inside of the top-cover section of the container which consists of the topcover section attached in the body of a container, and this body of a container free [closing motion] through the hinge, the diffusion panel of the opalescence made from an acrylic, The panel, and the reflecting mirror which stuck the reflective sheet which consists of aluminum light source which consists of a cold cathode fluorescent lamp formed behind this diffusion can be used, an object can be illuminated or it enables it to see the face at the time of the the light switch on with fixed brightness, or was trying for the light source to establish the at offering the interior of a bag, the hand written down on a memo pad, and the portable modulated light means whose light is made to modulate manually. [0003]

In addition, the applicant for this patent has applied for the application for patent 2002-221189 as related precedence application.

900

Patent reference 1] JP.11-102601,A

[0002]

Problem(s) to be Solved by the Invention

means manually, and is modulated only paying attention to the viewpoint of lighting, though it had various esthetic stage effects which can bring a container according to the light source. That is, By the way, the container of the above-mentioned patent reference 1 was the thing of extent whose light make turn on the light source with fixed brightness, or operates a modulated light the light source, and they were not effective and the thing which noted fully using about the it is thought that it consists of patent reference 1 under the idea that the light source is required only in order to secure brightness.

expression brewed by operation of light even if various visual effectiveness will be acquired if the this-application person has not seen in a container according to the light source until now based light source is used, and it is the same product does not change variously, and the invention-indowever, paying attention to the ability to give the esthetic ornament effectiveness which the on such knowledge, it used to come to complete this invention.

and aims at offering the receipt case which enabled it to give the ornament esthetic or new, and and the various stage effects by the light from the light source are acquired, it is characteristic As this invention is originated in view of the above-mentioned conventional technical problem novel which makes the ambient atmosphere of a proper brew.

[Means for Solving the Problem]

The receipt case concerning this invention is characterized by having the controller by which the above-mentioned light equipment controls the amount of luminescence of each color of the RGB ight source and this RGB light source in the receipt case which formed light equipment in the lid which opens and closes a case body.

possible to give the ornament esthetic or new, and novel which makes the ambient atmosphere and this appeals visually are acquired, and it is characteristic of a receipt case and it becomes color of the RGB light source by the controller, he is trying to control coloring, lightness, etc., The various stage effects by light against which control the amount of luminescence of each of a proper brew.

battery and the above-mentioned light equipment in the above-mentioned hinge according to the amount of rotation of the above-mentioned lid while the dc-battery which supplies power to said light equipment is formed in the above-mentioned case body and which can be attached and characterized by establishing the contact which makes it flow through the above-mentioned dc-Moreover, said lid is connected with said case body free [rotation] through a hinge, and it is detached.

[00]

become heavy and it will become easy to close, if a dc-battery is formed in the lid which rotates The dc-battery is formed in the case body, the center of gravity of a receipt case becomes low. supply and a halt of the power from a dc-battery to light equipment by rotation actuation of the through a hinge. On the other hand, the lid was attached in the case body through the hinge, according to the amount of rotation of a lid, and it becomes possible to switch automatically and the sense of stability can be raised. Moreover, this can be prevented, although a lid will enabling free rotation, the contact which can attach and detach is prepared in this hinge lid which opens and closes a case body.

formed translucent. It enables this to ornament the characteristic ambient atmosphere which Moreover, said lid is characterized by the transparence which makes light penetrate, or being used the stage effects by light also for the appearance of a lid.

[0013]

reflect the light of said RGB light source. It becomes possible to irradiate effectively the light Moreover, it is characterized by preparing the reflective member in which said lid is made to which demonstrates the visual ornament effectiveness by this toward the method of outside rom a lid.

Furthermore, it is characterized by preparing the transparence or translucent covering which said light equipment is covered [covering] to said lid, and makes it penetrate light. Thereby, light is made to emit through covering and it becomes possible to add various visual effectiveness, such as diffusion, scattered reflection, etc. of light. [0015]

http://www4.ipdl.ncipi.go.jp/cgi-bin/tran_web_cgi_ejje

Moreover, it is characterized by preparing the cover member which conceals said light equipment in said covering. This prevents that light equipment is transparent and appears through covering, and it becomes possible to raise a fine sight.

[9016]

Embodiment of the Invention]

Below, 1 suitable operation gestalt of the receipt case concerning this invention is explained with reference to an accompanying drawing at a detail. The case body 3 with which the storage space receipt objects as shown in $\overline{drawing 1} - \overline{drawing 4}$ was formed. While connecting with the end of the case body 3 free [rotation] through a hinge 4 and opening and closing the case body 3, it engages with the other end of the case body 3 free [engaging and releasing] through the hook 2 which, as for the receipt case 1 concerning this operation gestalt, contains various kinds of means 5, and mainly consists of lids 6 which maintain the case body 3 concerned in the closedown condition.

[60 [7]

inserted in the hinge hollow 11 formed in the case body 3 in the opposite side, and a hinge pin 13 free [engaging and releasing], and stuffing the push piece 8 into the method of the inside of the and the hook section 10 which is formed in a lid 6 and engages with the projection 9 for a hook case body 3 The projection 9 for a hook can secede from the hook section 10, and can open a formed in the case body 3, By consisting of projection 9 for a hook formed in the push piece 8, lid 6 now. Moreover, a hinge 4 consists of that the hinge block 12 made to hang from a lid 6 is The push piece 8 by which the hook means 5 was established free [a slide] in the hollow 7 is inserted in it ranging from the case body 3 to a hinge block 12 in the hook means 5.

contained as a receipt case 1 while storage space 2 was filled up with cosmetics 14 is illustrated. However, as a receipt case 1, not only a cosmetics container such but a jewel, the accessories If it is in the example of illustration, the portable cosmetics container with which a pan 15 is of your being what contains what kind of receipt object, etc. are natural.

6a inside, It is inserted in opening 17a of a reflecting plate 17, and is fixed to rear-face 6c of a lid side, peripheral-wall 6a is formed in it, with surface 6b which presents the appearance of a lid 6 periphery is fixed to rear-face 6c of a lid 6, and that periphery edge is fixed to a peripheral-wall 6, a periphery edge is fixed to the light equipment 18 which emits light, and a peripheral-wall 6a with which opening 17a is formed in this crevice 16 in the center section, and that opening 17a inside, and the tabular covering 19 which blocks a crevice 16 is formed, separating spacing and by this, it will surround by peripheral-wall 6a in rear-face 6c of the opposite side, and partition If a lid 6 is explained, the periphery section of a lid 6 is made to hang toward the case body 3 formation of the crevice 16 will be carried out. The reflecting plate 17 as a reflective member covering light equipment 18 and a reflecting plate 17 among them.

reflects the exposure light from light equipment 18 toward covering 19. Covering 19 is formed in Toward a periphery edge, a side cross section curves in the shape of [of concave] a parabola, concealed so that covering 19 may be spaced and light equipment 18 may not appear is formed and is formed toward a covering 19 side, from opening 17a, and, thereby, a reflecting plate 17 the transparence or translucence which makes light penetrate. As covering 19, what diffuses light is desirable. Moreover, it becomes depressed in light equipment 18 and a corresponding location, section 19a is formed in covering 19, and the end plate 20 as a cover member in this hollow section 19a.

constitute the controller which controls the amount of luminescence of each color of the RGB Light equipment 18 consists of electronic substrates 22 with which the electronic parts which directly mounted on the electronic substrate 22. As the RGB light source 21, various kinds of light source 21 and this RGB light source 21 were mounted, and the RGB light source 21 is things known conventionally, such as LED and an electroluminescence (EL) component, are employable. Controlling elements, such as IC chip with which programming which controls

JP,2004-327094,A [DETAILED DESCRIPTION]

uminescence of the RGB light source 21 was written in the electronic parts which constitute a controller, are contained, and the RGB light source 21 is made to emit light according to programming.

in a controlling element between this blinking, luminescence of the RGB light source 21 carrying interval short in making light emit by various tints, and what kind of programming may be stored sequential change of the luminescence rate of green and blue, and making it blink with a time Changing into various colors to whenever [that], and making it red, color, etc., carrying out out, making the amount of the whole luminescence fluctuate as a direction for example, and making it blink slowly.

attachment-wall 3b started and formed toward the lid 6 side from pars-basilaris-ossis-occipitalis interior. The dc-battery case 24 which contains the carbon button mold cell 23 as a dc-battery formed in this storage space 2. While the inside pan 15 is formed more shallowly than the depth storage space 2 which contains the inside pan 15 by this will be carried out to the case body 3 which supplies power to the light equipment 18 other than the inside pan 15 exchangeable is 3a and this pars-basilaris-ossis-occipitalis 3a periphery edge, and partition formation of the of storage space 2, annular flange 15a of the periphery edge is stopped by the upper limit of clearance for storing the dc-battery case 24 between the inside pan 15 and pars-basilaris-Next, if the case body 3 is explained, the case body 3 will consist of circumferential sidecircumferential side-attachment-wall 3b, it is fixed to the case body 3, and, thereby, the ossis-occipitalis 3a of the case body 3 is formed.

exposure] a frame. And this dc-battery case 24 is made to hang from the inside pan 15 with the notching section 26 formed in pars-basilaris-ossis-occipitalis 3a covering the case body 3 from The dc-battery case 24 is formed in two carbon button mold cells 23 in the shape of [which is with the slide rail 27 of the pair formed toward the back of storage space 2 from the notching that circumferential side-attachment-wall 3b, and is inserted free [a slide] into a clearance the reverse sense and holds the electrode of plus minus of these table flesh side by the section 26.

stable --- holding --- a sake --- the path of insertion --- the front --- having protruded --- a pair --flexibility -- elasticity -- a piece -- 28 -- each -- a tip -- a pair -- a slide -- a rail -- 27 -- an carrying out insert and remove from the notching section 26 to a clearance through the slide rail edge -- having formed -- each -- a stop -- heights -- 29 -- engaging and releasing -- free -moreover -- a dc-battery -- a case -- 24 -- *** -- this -- storage space -- two -- inside equips with the dc-battery case 24 in the case body 3, the conductor 25 which makes it flow stopping -- having -- a stop -- a projection -- 30 -- forming -- having . Moreover, when it through one electrodes of two cells 23 is formed in pars-basilaris-ossis-occipitalis 3a of the case body 3. And desorption of this dc-battery case 24 is carried out to the case body 3 by 27, and, thereby, it can exchange a cell 23 now.

the dc-battery side lead wire 31 of the plus minus pair through which end face section 31a flows, and a lid 6. A contact 30 consists of each electrode of another side of two cells 23, point 31b of equipment 18 in a lid 6, a contact 30 is formed in the hinge 4 which connects these case body 3 it is stuck and prepared in a single string, and piece of hinge 12 front faces are partially covered side lead wire 32 is a strip-like, ranging from the crevice 16 to the piece 12 of a hinge of a lid 6, section 32a is connected to the electronic substrate 22 of light equipment 18. The light source and point 32b of the light source side lead wire 32 of the plus minus pair by which end face Furthermore, from the cell 23 within the case body 3, in order to supply power to the light with the point 32b.

ranging from the storage space 2 to the hinge crevice 11, the dc-battery side lead wire 31 is It is formed in the shape of a strip, and except for the end face section 31a and point 31b,

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JP,2004-327094,A [DETAILED DESCRIPTION]

6/2 ペーツ

lead wire 31 is formed so that it may be ****(ed) possible [attachment and detachment] by the hinge crevice 11 from between annular flange 15a of the inside pan 15, and the circumferential deformation], from the inside pan 15, it floats and end face section 31a of the dc-battery side cell 23 exchanged. Moreover, point 31b of the dc-battery side lead wire 31 is projected in the from concerned annular flange 15a and circumferential side-attachment-wall 3b, floats and is side-attachment-wall 3b upper limit of the case body 3, and possible [elastic deformation], also stuck on a single string, and is prepared in the inside pan 15. Possible [elastic

advances deeply into the hinge crevice 11, and point 31b of the dc-battery side lead wire 31 and gap between point 31b of the dc-battery side lead wire 31 So that it may contact in the rotation the light source side lead wire 32 and 32b are contacted free [attachment and detachment] by rotation of this piece 12 of a hinge. By this The contact 30 which makes it flow through a cell 23 and rotates in the hinge crevice 11 according to rotation of a lid 6 When the lid 6 has closed the process of a lid 6 in which the case body 3 is opened, carrying out elastic deformation of this to case body 3 While being shallowly located in the hinge crevice 11 and separating a considerable and light equipment 18 according to the amount of rotation of a lid 6 and which can be attached And the piece 12 of a hinge which the light source side lead wire 32 is arranged in a front face, point 31b of the dc-battery side lead wire 31 It is formed with the appearance profile which and detached is constituted.

makes penetrate light, or in order to make this lid 6 penetrate light, some reflecting plates 17 are source 21 may be irradiated by the rear face of an end plate 20 from the mirror plane of an end excised suitably. And the surface 6b is beginning to illuminate [come] a lid 6 by the exposure transparency section which removed silver plating partially so that the light from the RGB light light from the RGB light source 21 which penetrates this. Moreover, you may make it form the Furthermore, if needed, while being formed translucent, the transparence which a lid 6 also plate 20 through covering 19 if needed.

and the case body 3 be opened, a contact 30 be contacted, power be supplied to light equipment the lid 6 which was reflected with the reflecting plate 17 as a direct light, and was opened as the 18 from the carbon button mold cell 23, and the RGB light source 21 will emit light with various case 1 of this operation gestalt equipped with the above-mentioned configuration be explained, blinking etc. The light of this RGB light source 21 begins to illuminate the rear-face 6c side of Next, if the hook means 5 will be removed, a lid 6 will be rotated, if an operation of the receipt tints and brightness according to programming written in the controlling element, carry out reflected light in various modes through covering 19.

irradiated by the method of outside. On the other hand, if the case body 3 is closed with a lid 6, translucent lid 6, and begins to illuminate the surface 6b. Furthermore, the light from the RGB Moreover, the exposure light from the RGB light source 21 penetrates transparence or the ight source 21 penetrates the end plate 20 from which silver plating was removed, and is a contact 30 will separate and, thereby, the RGB light source 21 will be switched off.

and the RGB light source 21 for the light equipment 18 formed in a lid 6 was had and constituted Control the amount of luminescence of each color of the RGB light source 21 by the controller, and coloring, lightness, etc. are controlled. The various stage effects by light against which this esthetic or new, and novel which makes the ambient atmosphere of a proper brew can be given. source 21 controlled by the controller, even if it is the same product, the expression brewed by operation of this light can be changed variously, and the esthetic omament effectiveness which controller which controls the amount of luminescence of each color of the RGB light source 21 Thus, if it is in the receipt case 1 concerning this operation gestalt explained above Since the appeals visually can be acquired, it is characteristic of the receipt case 1, and the ornament That is, various visual effectiveness can be acquired by the exposure light of the RGB light

has not been seen in the receipt case 1 according to this RGB light source 21 until now can be

contact 30 which makes a hinge 4 flow through a cell 23 and light equipment 18 according to the operability can be improved, while being able to switch supply and a halt of the power from a cell Moreover, when connecting a lid 6 with the case body 3 free [rotation] through a hinge 4, while amount of rotation of a lid 6 and which can be attached and detached was established This can also be prevented, although a lid 6 will become heavy and it will become easy to close, if a cell 23 to light equipment 18 automatically and being able to make lighting and putting out lights of 23 is formed in a lid 6 while being able to make low the center of gravity of the receipt case 1 the RGB light source 21 perform rationally by rotation actuation of the lid 6 which opens and forming the cell 23 which supplies power in light equipment 18 at the case body 3 Since the and being able to raise the sense of stability with the weight of a cell 23. Furthermore, the closes the case body 3.

according to light also to the appearance of a lid 6 since it formed translucent which makes light equipment 18 is covered { covering } to a lid 6, and makes light penetrate was prepared, light can penetrate a lid 6 can be ornamented. Moreover, since the reflecting plate 17 in which a lid 6 is Moreover, the characteristic ambient atmosphere using the transparence or the stage effects made to reflect the light of the RGB light source 21 was formed, the light which demonstrates the visual ornament effectiveness can be effectively irradiated toward the method of outside from a lid 6. Furthermore, since the transparence or the translucent covering 19 which light be made to be able to emit through covering 19 and various visual effectiveness, such as diffusion, scattered reflection, etc. of light, can be added.

19 to it, and a fine sight can be raised to it. Moreover, since the silver plating of an end plate 20 the lid 6 if it was in the above-mentioned operation gestalt, of course, the whole may be formed formed in it, it can prevent that light equipment 18 is transparent and appears through covering opaquely. Moreover, although the case where the silver plating of an end plate 20 was removed characteristic ambient atmosphere which used the stage effects by light also for end plate 20 the very thing can be ornamented. Although transparence or a translucent part was formed in Moreover, since light equipment 18 was concealed to covering 19 and the end plate 20 was is removed partially and it was made to make light irradiate from a mirror plane, the partially was explained, it is not necessary to necessarily remove silver plating.

[Effect of the Invention]

Above, in short, if it is in the receipt case concerning this invention, as the various stage effects by the light from the light source are acquired, it is characteristic and the ornament esthetic or new, and novel which makes the ambient atmosphere of a proper brew can be given. [Brief Description of the Drawings]

[Drawing 1] It is the perspective view showing 1 suitable operation gestalt of the receipt case concerning this invention.

Drawing 3] It is the outline top view showing the condition of having opened the receipt case of Drawing 2] It is the sectional side elevation of the receipt case of drawing 1 drawing 1 and having removed the inside pan.

Drawing 4] It is the important section expansion sectional side elevation showing the condition of having rotated the lid of the receipt case of drawing 1 and having contacted the contact.

[Description of Notations]

1 Receipt Case 3 Case Body

4 Hinge 6 Lid

17 Reflecting Plate 18 Light Equipment

19 Covering 20 End Plate

21 RGB Light Source 22 Electronic Substrate

23 Carbon Button Mold Cell 30 Contact

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

Drawing 1] It is the perspective view showing 1 suitable operation gestalt of the receipt case

concerning this invention.

[<u>Drawing 2]</u> It is the sectional side elevation of the receipt case of <u>drawing 1</u>. [<u>Drawing 3]</u> It is the outline top view showing the condition of having opened the receipt case of drawing I and having removed the inside pan.

Drawing 4] It is the important section expansion sectional side elevation showing the condition

of having rotated the lid of the receipt case of drawing 1 and having contacted the contact.

[Description of Notations]
1 Receipt Case 3 Case Body

17 Reflecting Plate 18 Light Equipment 4 Hinge 6 Lid

19 Covering 20 End Plate

21 RGB Light Source 22 Electronic Substrate

23 Carbon Button Mold Cell 30 Contact

[Translation done.]

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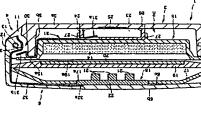
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(54) [発明の名称] 収開ケース

(57) (政約)

與的もしくは斬箭で斬奇な装飾を施せるようにした収納 (製画) 光道からの光による多個多様な適出効果が得ら れるようにして、特徴的で固有の射田気を避し出させる ケースを提供する。

装置とを整体の回動量に応じて導通させる接難可能な接 【解決手段】ケース本体3を開閉する整体6に光斌装置 18を設けた収納ケース1において、光道装置が、RG B光版21とRGB光版の各色の発光量をコントロール ケース本体に整体がヒンジ4を介して回動自在に連結さ た、ケース本体に、光圀装置に配力を供給するボタン型 配名 3 3が取げられる 2 7 もに、 アンジに、 自治 7 光波 するコントローラを実装した配子基板22とを備える。 点30が配けられる。



[特許額状の範囲]

JP 2004-327094 A 2004.11.18

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【職求項1】

ケース本体を開閉する磁体に光導装置を吸けた収替ケースにおいて、上配光罩装置が、RGB光谱と核 RGB光谱の各色の発光量をコントロールするコントローラとを儲えること を特徴とする収納ケース。

[額求項2]

町のフース争なに町的領体がヒンジを介して回動自在に連結され、上記ケース本体に、前記光波装履に関力を供給するパッテリが設けられるとともに、上記ヒンジに、上記パッテル・・・・・・・・・・・・・・・・・・・・ リと上配光頌装置とを上配盤体の回動量に応じて導通させる接離可能な接点が設けられる ことを特徴とする請求項1に配載の収納ケース。

으

前配蓋体が、光を透過させる透明もしくは半透明に形成されていることを特徴とする間状 [醇水項 3]

項1または2に配載の収納ケース。

【醋水烟4】

前配盤体には、前配RGB光環の光を反射させる反射部材が設けられていることを特徴と する酢水項1~3いずれかの項に配載の収納ケース。 【韓永頃5】

前配蓋体には、前配光源装置を覆って、光を透過させる透明もしくは半透明のカパーが設 けられていることを特徴とする間求項1~4いずれかの項に配載の収納ケース。

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【請求項6】

前配カパーには、前配光凝装置を隠蔽する覆い部材が殼けられていることを特徴とする前 求項5に記載の収納ケース。

【発明の詳細な説明】

[0000]

【発明の属する技術分野】

本発明は、光顔からの光による多種多様な演出効果が得られるようにして、特徴的で固有 の雰囲気を醸し出させる臭的もしくは斬新で新奇な装飾を施せるようにした収納ケースに

[0002] 困ずる。

の容器は、照度の低い所、例えば、夜の屋外、OHPを用いた会職の席や夜間の車の中で 光顔を有する携帯用容器を提供することを目的とし、容器本体とこの容器本体に鎮番を介 も、カパンの内部、メモ帳に衛配する手元、また鏡に写る化粧時の顔を見ることができる 従来、光澈を備えた容器として、例えば特許文献1に開示されたものが知られている。 【従来の技術】

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して開閉自在に取り付けられた上盤部とからなる容器の上盤部の内面に、アクリル製乳白 顔を照射して暗い場所でも鏡を用いることができるようにして、照度の低い所でも、対象物を照らしたり、鏡に写る化粧時の顔を見ることができるようにしている。また、光鏡は 顔を点灯させるための回路基板と、電顔と、スイッチ手段とからなる光顔ユニットを組み 込み、光顔を点灯させることにより、容器本体の内部を照明したり、容器本体を持つ者の 色の拡散パネルと、この拡散パネルの後方に設けられた冷路極蛍光灯からなる光湖と、こ の光顔の後方に設けられたアルミニウム靱板からなる反射シートを貼付した反射観と、 一定の明るさで点灯させたり、手動で開光させる関光手段を設けるようにしていた。

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なお、本願出願人は、関連する先行出願として、特願2002-221189を出願して [0003]

[0004]

【特許文献1】

特開平11-102601号公

[0005]

【発明が解決しようとする課題】

 $\widehat{\mathbb{Z}}$

程度のものであり、光頃によって容器にもたらすことが可能な多様な美的資出効果を有効 かつ十分に利用することに蟄目したものではなかった。すなわち、特許文献1では、明る 上配待許文献1の容器は、光頌を備えながらも照明という観点のみに着目した ものであって、光顔を一定の明るさで点灯させたり、手動で開光手段を操作して開光す さを確保するためにのみ光顔が必要であるとの考えの下に僻成されたものであると考え

[0000]

으 うな知見に基づき、光質によって容器に、今まで見たこともない英的装飾効果を与え得る しかしながら、光顔を用いれば、多種多様な視覚的効果が得られ、同じ製品であっても の作用によって瞪し出される恐怖はさまざまに変わるものであって、本願発明者はこの ことに蟄目して本発明を完成するに至ったものである。

[0007]

本発用は上配従来の麒翹に籠みて創案されたものでおって、光凛からの光による多種多様 な資出効果が得られるようにして、特徴的で固有の雰囲気を醸し出させる契めもしくは1 新で新奇な装飾を施せるようにした収納ケースを提供することを目的とする

【鶴圃を解決するための手段】 [0008]

において、上記光頌装置が、RCB光頏と核RCB光頏の各色の発光量をコントロールす 本発明にかかる収納ケースは、ケース本体を開閉する蓋体に光頌装置を設けた収納ケ るコントローラとを備えることを特徴とする。

[0000]

納ケースに、特徴的で固有の雰囲気を醸し出させる美的もしくは斬新で新奇な装飾を施 コントローラでRGB光頌の各色の発光量をコントロールして発色や明度などを制御す ようにしていて、これにより視覚的に訴える、光による多種多様な資出効果が得られ、 ことが可能となる。

[00100]

に、前配光環数層に魅力を供給するパッテリが殴けられるとともに、上配ヒンジに、上配 また、前配ケース本体に前配盤体がヒンジを介して回動自在に連結され、上配ケース本体 パッテリと上配光頌装置とを上配蓋体の回動量に応じて導通させる接離可能な接点が設け られることを铅徴とする。

[0011]

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パッテリをケース本体に敷けていて、収納ケースの国心が低くなり、その安定感を高め得 動自在に取り付け、このとンジに猫体の回動量に応じて接継可能な接点を殴けていて、ケ 一ス本体を開閉する磁体の回動操作でパッテリから光頌装置への配力の供給・停止を自動 た、ヒンジを介して回動される磁体にパッテリを設けると、磁体が重くなって閉 やすくなってしまうが、これを防止し得る。他方、ケース本体にヒンジを介して蓋体を 的に切り換えることが可能となる。 ₩ ₩

[0012]

\$ る。これにより、蓋体の外観にも、光による演出効果を利用した特徴的な雰囲気の装飾を また、前配盤体が、光を透過させる透明もしくは半透明に形成されていることを特徴

筋すことが可能となる。 [0013]

特徴とする。これにより、視覚的な装飾効果を発揮する光を、盤体から外方へ向かって効 た、前配盤体には、前配RGB光環の光を反射させる反射部材が設けられていることを 果的に照射することが可能となる。 #16

[0014]

5に、前配盤体には、前配光微数置を覆って、光を透過させる透明もしくは半透明のカ パーが殴けられていることを特徴とする。これにより、光をカパーを通して発散させて、 光の拡散や乱反射など、さまざまな視覚的効果を付加することが可能となる。

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[0016]

する。これにより、光波被目がカバーを介して随けて見えることを啓示して、発見を確めることが回答とせる。

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【発明の実施の形態】

以下に、本発明にかかる収納ケースの好適な一東館形態を、添付図面を参照して詳細に戦 明する。本実筋形態にかかる収納ケース1は図1~図4に示すように、各種の収納物を収 納する収納空間 2 が形成されたケース本体 3 と、ケース本体 3 の一幅にヒンジ 4 を介して , 手段5を介して係脱自在に係合されて、当該ケース本体3を閉止状態に維持する整体6と 回動自在に連結されて、ケース本体3を開閉するとともに、ケース本体3の他増にフ から甘に薛成される。

[0017]

ック用突起9に係脱自在に係合されるフック部10とから構成され、ブッシュピース8が せん ュピース8と、ブッシュピース8に形成されたフック用突起9と、盤体6に形成されてフ 一ス本体3内方へ押し込まれることにより、フック用突起9がフック町10から離脱さ 反対側においてケース本体3に形成されたヒンジ凹所11に、猫体6か5垂下させたヒン フック手段5は、ケース本体3に形成された凹所1内にスライド自在に設けられたプッシ ジブロック12が増入され、ケース本体3からヒンジブロック12にわたってヒンジピン れて、盤体6を聞くことができるようになっている。またヒンジ4は、フック手段 13が挿入されることで構成される。

[0018]

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5 が収納される携帯用の化粧料容器が例示されている。しかしながら、収納ケース1と ては、このような化粧料容器に限らず、宝石や装身具など、いかなる収納物を収納する 図示例にあっては、収制ケース1として、収制空間2に、化粧料14が充填された のであっても良いことはもちろんである。

の外国線が外国館 6 a 内画に固定される反射部材としての反射板11と、反射板11の阻口部17 a に挿入されて雄体 6 の現画 6 c に固定され、発光する光道装置18と、外国戦6 a 内画に外国線が固定され、光道装置18および反射板11をそれらとの間に関係や関 に、外周壁6aで取り囲んで凹部16が区画形成される。この凹部16には、中央部に関 口部117aが形成されて、その関口部11a周祿が整体6の英面6cに固定され、またそ 禁体6について説明すると、蓋体6の周殻部には、ケース本体3個へ向かって垂下さ 外周壁6aが形成され、これにより笹体6の外観を旦する表面6bとは反対側の裏面 6 a内面に外周線が固定され、光頌装置18および反射板17をそれらとの間に間 てて覆いつつ、凹部16を封鎖する板状のカパー19とが設けられる。 [0019]

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[0020]

反射板17は個断面が開口部17aか5外周線に向かってカパー19個に向かって凹のパ 8 と対応する位置に鶴み部19aが形成され、この鶴み部19aには、カパー19を透か ラボラ状に隣曲されて形成され、これにより光微装置18からの照射光を、カパー19へ カバー19としては、光を拡散させるものが好ましい。またカバー19には、光阗装置1 向かって反射させる。カバー19は、光を遊過させる遊明もしくは半週明に形成される。 して光潋装置18が見えないように隠蔽する覆い部材としての鏡板20が設けられる。

[0021]

光顔21は電子基板22上に直接奥装されている。RGB光顔21としては、LEDやエ レクトロルミネセンス(EL)繋子など、従来知られている各種のものを採用することが 光顔装置18は、RGB光顔21と、このRGB光顔21の各色の発光量をコントロール するコントローラを構成する電子部品が実装された電子基板22とから構成され、RCB できる。コントローラを構成する電子部品には、RCB光費21の発光をコントロールす ラミングが暫き込まれたICチップ等の制御案子が含まれ、プログラミ B光版21を発光させる。 7

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GB光賞31の発光のさせ方としては、例えば全体の発光量を増減させてゆっくりと明 域させながら、この明娥の間に、赤、縁および寄の発光割合を頤次変化させてさまざまな 色合いで発光させたり、あるいは短い時間間隔で明滅させながらそのたびにさまざまな に変えて発色させるなど、どのようなプログラミングを制御案子に格納してもよい。

[0023]

2 よりも茂く形成されるとともに、その外面縁の環状フランジ部158が周囱盟3bの上端 に係止されてケース本体3に固定され、これにより中回15とケース本体3の底部3aと は、中回15の他に、光波装置18に虹力を供給するパッテリとしてのボタン型電池23 中回15を収納する収納空間2がケース本体3内部に区画形成される。この収納空間2 を交換可能に収納するパッテリケース24が設けられる。中回15は、収納空間2の深 の間に、パッテリケース24を格納するための隙間が形成される。 [0024]

極を逆向きで、臨出状態で保持する枠体状に形成される。そしてこのパッテリケース24 四15から垂下させて、切り欠き部26から収納空間2の奥に向かって形成した一対の パッテリケース24は、2つのボタン型電池23を、それら表現のプラス・マイナスの電 一ス本体3にその周側閏3bから底部3aにわたって形成した切り欠き部26と、 スライドレール27とによって、隙間内へスライド自在に挿入される。 [0025] は、ケ #

前方へ突殺した一対の可撓性弾性片28の各先端に、一対のスライドレール21の端部に 又本体3の底部3amは、パッテリケース24をケース本体3内に被替した際に、2つの 1 形成した各條止凸部29と係脱自在に係止される係止突起30が形成される。また、ケ またパッテリケース24には、これを収納空間2内に安定的に保持するために、挿入方 電池23の一方の電極同士を導通させる導体25が設けられる。そしてこのパッテリケ ス24は、切り欠き部26からスライドレール27を介して殷間へ搟抜することでケー 本体3に対し脱離され、これにより監治23を交換できるようになっている。 さらに、ケース本体3内の電池23から、醤体6内の光源装置18に配力を供給するため スー対のパッテリ側リード観31の先端部316と、光潋装置18の粒子基板22に基端 **断328が接続されるプラス・マイナスー対の光漆側リード線32の先端部32bとで構** 0 は、 2 つの電池 2 3 の他方の電極それぞれと堪略部 3 1 a が導通されるプラス・マイナ て一連に貼り付けて殴けられ、その先端部32bによってヒンジ片12装面が部分的に覆 に、これらケース本体3と蓋体6とを連結するヒンジ4に接点30が殴けられる。接点 成される。光質関リード数32は帯板状で、截体6の凹部16か5ヒンジ片12にわた

われる。

[0026]

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。パッテリ側リード酸31の基端部31aは、交換される監袖23に接離可能に弾接され くく、野体政形以続に中国15かの部かせて形成される。またバッナリ歯リード級31 かな パッテリ側リード級31も帯板状に形成され、その基盤部31aおよび先艦部31bを除 いて、中国15に仮絶空間2からヒンジ回部11にわたって一班に貼り付けて設けられる の先盤節31bは、中回15の現状フランジ節15aとケース本体3の周回騒3b上艦 の間からヒンジ凹部11内に突出され、かつ弾性效形可能に当該環状フランジ部15g。 よび周顱闘3bから砕かせて形成される。 [0027] ю

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で回転されるヒンジ片12は、盤体6がケース本体3を閉じているときには、ヒンジ凹部 的31bにこれを踏在效形させつつ当板するように、ヒンジ回的11内に際く編入し そして、表面に光質関リード線32が配設され、整体6の回動に従ってヒンジ凹部11内 とともに、ケース本体3を聞いていく螫体6の回動過程で、パッテリ倒リード殻31の 11内に浅く位置してパッテリ倒リード協31の先輪的31bとの間に相当の間限を展 00

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ていく外形輪仰で形成され、このヒンジ片12の回転によってパッテリ個リード級31 光波側リード線32の先端部31b,32b同士が接降自在に接触され、これにより、 **池23と光道装置18とを蓋体6の回動量に応じて導通させる接離可能な接点30が**

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[0029]

に、この植体6に光が迅通させるために反射板11の一部が適宜に切除される。そして趙体6は、これを凝過する R C B 光顔21からの照射光によって、その投面6bが既らし出 S HI の光がカパー19を介し親板20の親面から照射されるように、銀メッキを部分的に除 されるようになっている。また、鏡板20の裏面にも必要に応じて、RCB光凝21か さらに必要に応じて、螫体6も、光を透過させる透明もしくは半透明に形成される した透過部を形成するようにしても良い。 [0030]

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ン型電池23かち光瀬装置18に電力が供給され、RGB光瀬21は、側御繋子に書き込 。このRGB光源21の光はカパー19を介して、直接光としてもしくは反射板11で. 段5を外し蓋体6を回動させてケース本体3を開いていくと、接点30が当接されてボ まれたプログラミングに従って、明斌などしながら多租多様な色合いや明るさで発 次に、上配構成を備える本実筋形態の収納ケース1の作用について説明すると、 射されて反射光として、開かれた整体6の英面6c側を模々な態様で照

6bを照らし出す。さらに、RCB光輝21からの光は鉛メッキを除去した飽板20を透過して外方に照射される。他方、蓋体6でケース本体3を閉じると接点30が離れ、これ また、RGB光像21からの照射光は、遊明もしくは半遊明の鍣体6を遊過してその設 によりRGB光瀬21は消灯される。

[0031]

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與的もしくは斬断で衝布な装飾を拭すことができる。すなわち、コントローラでコントロールされる R G B 光道 2 1 の照射光によって多種多様な視覚的効果を得ることができ、同じ製品であってもこの光の作用によって醸し出される投資をさまざまに変えることができて、この R G B 光道 2 1 によって収制ケース 1 に、今まで見たこともない鋭的数語的現を コントローラとを値えて棒成したので、コントローラでRGB光鎖21の各色の発光量をコントロールして発色や明度などを制御し、これにより視覚的に解える、光による多種多 このように以上説明した本実簡形態にかかる収納ケース1にあっては、蟄体6に設けられ 16 る光顔装置18を、RGB光顔21とRGB光顔21の各色の発光量をコントロールす 様な演出効果を得ることができ、収納ケース1に、特徴的で固有の雰囲気を聞し出させ て、このRGB光道21によって収制ケース1に、今まで見たこともない英的装飾物! 与えることができる。 [0032]

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安定級を商めることができるとともに、強体6に配治23を設けると、強体6が狙くなって関じやすくなってしまっか、これも防止し得る。さらに、ケース本体3を開田する链体6の回動操作によって、自動的に配治23から光波装置18への配力の供給・停止を切り抜えることができ、合理的にRGB光版21の点灯・消灯を行わせることができるととも 体3に、光質装置18に魅力を供給する監治23を設けるとともに、ヒンジ4に、配池2 3 と光顔装置18とを蓋体6の回動量に応じて導通させる接離可能な接点30を設けるよ うにしたので、智治23の国さによって収絶ケース1の国心を低くすることができ、その 換えることができ、合理的にRGB光賞2Iの点灯・消灯を行わせることができ また、ケース本体3に、ヒンジ4を介して盤体6を回動自在に連結する場合に、 に、その操作性を向上できる。 [0033]

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S また、蓋体6を、光を透過させる透明もしくは半透明に形成したので、蓋体6の外観にも B光瀾21の光を反射させる反射板17を敷けたので、視覚的な装飾効果を発揮す 、光による演出効果を利用した特徴的な雰囲気の装飾を施すことができる。また、整体6 る光を、蛰体6から外方へ向かって効果的に照射することができる。さらに、蟄体6に 閏18を襲って、光を遊過させる遊明もしくは半遊明のカバー19を敷けたので、 [🛭 2]

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することができる。

[0035]

[<u>M</u> 1]

[图3]

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また、カパー19に、光頌装置18を隠蔽して鏡板20を設けたので、光頌装置18がカパー19を介して透けて見えることを防止して、鏡観を高めることができる。また、鏡板 自体にも、光による液出効果を利用した特徴的な雰囲気の装飾を航すことができる。上記契筋形態にあっては、蓋体6に透明もしくは半透明な部分を形成したが、全体を不透明に形成しても良いことはもちろんである。また、鏡板20の鍛メッキを部分的に除去する物 20の銀メッキを部分的に除去して、鏡面から光を照射させるようにしたので、鏡板20 をカパー19を通して発散させて、光の拡散や乱反射など、さまざまな視覚的効果を付加

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合について説明したが、必ずしも鍛メッキを除去する必要はない。

【発明の効果】

[0036]

以上関するに、本発明にかかる収録ケースにあっては、光顔からの光による多趨多様な適出的果が等られるようにして、特徴的や固在の雰囲気や職し出させる幾的もしくは軽難で密奇な独節を描すことができる。

【図3】図1の収替ケースを開いて中国を取り去った状態を示す機略平面図である。【図4】図1の収替ケースの強体を回動させて接点を接触させた状態を示す要部拡大側断 【図2】図1の収拾ケースの匈断面図である。

【図1】本発明にかかる収納ケースの好適な一実施形態を示す斜視図である。

【図面の簡単な説明】

【符号の説用】 面図である。

収散ケース ス シン

ケース本体 光旗装置

反射板

RCB光谱 カバー

ボタン型電池

電子基板 极点

競板

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フロントページの観き

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